

Amendment and Response

Serial No.: 10/613,722

Confirmation No.: 4983

Filed: 3 July 2003

For: **DENTAL MATERIALS WITH EXTENDABLE WORK TIME, KITS, AND METHODS**

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Amendments to the Claims

This listing of claims replaces all prior versions, and listings, of claims in the above-identified application:

1. (Cancelled)

2. (Cancelled)

3. (Cancelled)

4. (Cancelled)

5. (Cancelled)

6. (Cancelled)

7. (Cancelled)

8. (Cancelled)

9. (Currently Amended) A dental material comprising:a hardenable resin system; anda first initiator system capable of hardening the hardenable resin;wherein the hardenable resin system and the first initiator system are selected such that when combined the resultant composition has an initial set phase time of less than about 180 seconds at room temperature, and an extended flexible phase working time of greater than about 85 seconds at room temperature;

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wherein the first initiator system comprises at least one reducing agent and at least one oxidizing agent; and

~~The dental material of claim 7~~ wherein the first initiator system comprises at least one tertiary aromatic amine and at least one mercaptan.

10. (Cancelled)

11. (Cancelled)

12. (Cancelled)

13. (Currently Amended) ~~The dental material of claim 4~~ A dental restorative comprising:
a hardenable resin system; and
a first initiator system capable of hardening the hardenable resin;
wherein the hardenable resin system and the first initiator system are selected such that when
combined the resultant composition has an initial set phase time of less than about 180 seconds at
room temperature, and an extended flexible phase working time of greater than about 85 seconds
at room temperature; and

wherein the dental material is useful as a restorative is selected from the group consisting of
an inlay, onlay, veneer, crown, and bridge.

14. (Cancelled)

15. (Currently Amended) ~~The dental material restorative of claim [1] 13~~ wherein the restorative
is useful as which is a provisional restorative.

16. (Currently Amended) ~~The dental material restorative of claim 15~~ wherein the provisional

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17. (Cancelled)

18. (Cancelled)

19. (Cancelled)

20. (Cancelled)

21. (Cancelled)

22. (Cancelled)

23. (Cancelled)

24. (Cancelled)

25. (Cancelled)

26. (Cancelled)

27. (Cancelled)

28. (Cancelled)

29. (Cancelled)

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30. (Cancelled)

31. (Cancelled)

32. (Cancelled)

33. (Cancelled)

34. (Cancelled)

35. (Cancelled)

36. (Currently Amended) The kit of claim 34 comprising A kit for preparation of a dental restorative, the kit comprising:

a first container comprising at least one tertiary aromatic amine reducing agent and at least one mercaptan reducing agent;

a second container comprising at least one oxidizing agent; and

at least a portion of a hardenable resin system in at least one of the containers;

wherein the hardenable resin system, reducing agent, and oxidizing agent are selected such that when combined the resultant composition has an initial set phase time of less than about 180 seconds at room temperature, and an extended flexible phase working time of greater than 85 seconds at room temperature.

37. (Cancelled)

38. (Cancelled)

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39. (Cancelled)

40. (Cancelled)

41. (Cancelled)

42. (Currently Amended) A kit for preparation of a dental restorative, the kit comprising:

a first container comprising at least one oxidizing agent;

a second container comprising at least two reducing agents, at least one of which is a mercaptan; and

at least a portion of a hardenable resin system in at least one of the containers.

43. (Cancelled)

44. (Cancelled)

45. (Cancelled)

46. (Cancelled)

47. (Cancelled)

48. (Cancelled)